

BAB VI

PENUTUP

6.1 Kesimpulan

Berdasarkan model evaluasi penerimaan e-health, dapat disimpulkan bahwa karakteristik human, organization, technology dan innovation berpengaruh signifikan terhadap persepsi manfaat dan persepsi kemudahan penggunaan pada penerapan e-health sebagai pendukung teknologi informasi kesehatan di rumah sakit. Berikut adalah hasil dari penelitian ini:

1. Faktor yang paling signifikan mempengaruhi penerimaan pengguna dalam menerima adopsi e-health adalah computer self-efficacy dimana nilai path coefficient $< 0,05$ dan p value $< 0,001$. Kemudian di susul dengan faktor Computer self-efficacy, compatibility, top management support, facilitating condition, information quality, complexity dan adaptability significant mempengaruhi persepsi manfaat pada e-health. lalu, faktor *computer self-efficacy*, *system quality*, *information quality*, dan *service quality* signifikan mempengaruhi persepsi kemudahan penggunaan pada e-health.
2. Rekomendasi yang diusulkan untuk mendukung penerapan e-health di rumah sakit umum daerah kabupaten gunung mas, provinsi kalimantan tengah adalah dengan tidak hanya memberikan materi mengenai pelatihan, pengenalan dan edukasi sosialisasi e-health yang harus rutin dilakukan pada setiap individu praktisi medis.

Tentu saja, didukung dengan kondisi fasilitas yang memadai untuk dapat menghasilkan kualitas baik sistem, informasi dan pelayanan.

6.2 Saran

Saran yang mendasar pada penelitian ini yakni, dengan memberi perhatian pada variabel yang mempengaruhi penerimaan adopsi pada teknologi e-health di wilayah pedesaan. Dalam hal ini penulis juga menyarankan agar faktor user involvement dan training perlu diperhatikan karena sebagian besar yang mengikuti pelatihan adalah pegawai yang berusia produktif sehingga dapat dengan mudah mensharing dengan sesama pegawai mengenai apa yang mereka dapat selama pelatihan. Kemudian penulis juga berharap karena hanya wilayah pedesaan Kalimantan saja yang dipilih agar di penelitian selanjutnya dapat melengkapi luas sebaran survey di daerah-daerah lainnya.

DAFTAR PUSTAKA

- Adenuga, I., Akinyede, O. and Akinsowon, O. (2014) ‘Development of a Cost-Effective Telemedicine Services for People Affected with Cardio-Vascular Diseases in the Rural Area : A Case Study of Iwo Local Government’, 11(6), pp. 129–135.
- Ahlan, A. R. and Isma, B. (2014) ‘User Acceptance of Health Information Technology (HIT) in Developing Countries : A Conceptual Model’, *Procedia Technology*. Elsevier B.V., 16, pp. 1287–1296. doi: 10.1016/j.protcy.2014.10.145.
- Ajzen, I. (1991) ‘The theory of planned behavior’, *Organizational Behavior and Human Decision Processes*, 50(2), pp. 179–211. doi: 10.1016/0749-5978(91)90020-T.
- Amalia, A. E., Airlangga, G. and Thohari, A. N. A. (2018) ‘Breast Cancer Image Segmentation Using K-Means Clustering Based on GPU Cuda Parallel Computing’, *JURNAL INFOTEL*, 10(1). doi: 10.20895/infotel.v10i1.344.
- Anand, V. K. M., Nisar, P. S. B., Naresh, G. D., Nagendra, R. S. and Mithun, S. (2017) ‘An improved performance of home E-health portable monitoring system’, in *2017 2nd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT)*. IEEE, pp. 2222–2226. doi: 10.1109/RTEICT.2017.8256995.
- Benavides-Vaello, S., Strode, A. and Sheeran, B. C. (2013) ‘Using Technology in the Delivery of Mental Health and Substance Abuse Treatment in Rural Communities: A Review’, *The Journal of Behavioral Health Services & Research*, 40(1), pp. 111–120. doi: 10.1007/s11414-012-9299-6.
- Borges Jr, Uirassu MSc; Kubiak, T. P. (2016) ‘Continuous Glucose Monitoring in Type 1 Diabetes: Human Factors and Usage’, *Journal of Diabetes Science and Technology*, 10(3), pp. 633–639. doi: 10.1177/1932296816634736.
- Cabitza, F. and Batini, C. (2016) ‘Information Quality in Healthcare’, in *Data and Information Quality*. Springer, Cham, pp. 403–419. doi: 10.1007/978-3-319-24106-7_13.
- Chang, M. Y., Pang, C., Michael Tarn, J., Liu, T. S. and Yen, D. C. (2015) ‘Exploring user acceptance of an e-hospital service: An empirical study in Taiwan’, *Computer Standards and Interfaces*. Elsevier B.V., 38, pp. 35–43. doi: 10.1016/j.csi.2014.08.004.
- Cho, I., Park, I., Kim, E., Lee, E. and Bates, D. W. (2013) ‘Using EHR data to predict hospital-acquired pressure ulcers: A prospective study of a Bayesian Network model’, *International Journal of Medical Informatics*, 82(11), pp. 1059–1067.

doi: 10.1016/j.ijmedinf.2013.06.012.

- Cresswell, K. and Sheikh, A. (2013) 'Organizational issues in the implementation and adoption of health information technology innovations: An interpretative review', *International Journal of Medical Informatics*. Elsevier Ireland Ltd, 82(5), pp. e73–e86. doi: 10.1016/j.ijmedinf.2012.10.007.
- Davis, F. (1989) 'Perceived Usefulness, Perceived Ease of Use, and User Acceptance of Information Technology', *MIS Quarterly*, 13(3), pp. 319–340. doi: 10.1016/S0305-0483(98)00028-0.
- Davis, F. D. (1993) 'User acceptance of information technology: system characteristics, user perceptions and behavioral impacts', *International Journal of Man-Machine Studies*, 38(3), pp. 475–487. doi: 10.1006/imms.1993.1022.
- Davis, F. D., Bagozzi, R. P. and Warshaw, P. R. (1989) 'User Acceptance of Computer Technology: A Comparison of Two Theoretical Models', *Management Science*, 35(8), pp. 982–1003. doi: 10.1287/mnsc.35.8.982.
- Davis, F. D., Bagozzi, R. P. and Warshaw, P. R. (1992) 'Extrinsic and Intrinsic Motivation to Use Computers in the Workplace', *Journal of Applied Social Psychology*, 22(14), pp. 1111–1132. doi: 10.1111/j.1559-1816.1992.tb00945.x.
- Duplaga, M. (2016) 'Searching for a Role of Nursing Personnel in Developing Landscape of Ehealth: Factors Determining Attitudes toward Key Patient Empowering Applications', *PLoS ONE*, 11(4). doi: 10.1371/journal.pone.0153173.
- Eslami Andargoli, A., Scheepers, H., Rajendran, D. and Sohal, A. (2017) 'Health information systems evaluation frameworks: A systematic review', *International Journal of Medical Informatics*. Elsevier Ireland Ltd, 97, pp. 195–209. doi: 10.1016/j.ijmedinf.2016.10.008.
- Esmacilzadeh, P., Sambasivan, M., Kumar, N. and Nezakati, H. (2015) 'Adoption of clinical decision support systems in a developing country: Antecedents and outcomes of physician's threat to perceived professional autonomy', *International Journal of Medical Informatics*, 84(8), pp. 548–560. doi: 10.1016/j.ijmedinf.2015.03.007.
- Faber, S., van Geenhuizen, M. and de Reuver, M. (2017) 'eHealth adoption factors in medical hospitals: A focus on the Netherlands', *International Journal of Medical Informatics*, 100, pp. 77–89. doi: 10.1016/j.ijmedinf.2017.01.009.
- Fishbein, M. and Ajzen, I. (1975) *Belief, Attitude, Intention, and Behavior: An Introduction to Theory and Research*, Reading, MA: Addison-Wesley. doi: 10.1017/CBO9781107415324.004.

- Fornell, C. and Larcker, D. F. (1981) 'Evaluating Structural Equation Models with Unobservable Variables and Measurement Error', *Journal of Marketing Research*, 18(1), p. 39. doi: 10.2307/3151312.
- Gagnon, M.-P., Nsangou, É.-R., Payne-Gagnon, J., Grenier, S. and Sicotte, C. (2014) 'Barriers and facilitators to implementing electronic prescription: a systematic review of user groups' perceptions', *Journal of the American Medical Informatics Association*, 21(3), pp. 535–541. doi: 10.1136/amiajnl-2013-002203.
- Gajanayake, R., Iannella, R. and Sahama, T. (2016) 'An Insight into the Adoption of Accountable-eHealth Systems – An Empirical Research Model Based on the Australian Context', *IRBM*, 37(4), pp. 219–231. doi: 10.1016/j.irbm.2016.01.002.
- Gusev, M., Ristov, S., Prodan, R., Dzanko, M. and Bilic, I. (2017) 'Resilient IoT eHealth solutions in case of disasters', *Proceedings of 2017 9th International Workshop on Resilient Networks Design and Modeling, RNDM 2017*, pp. 1–7. doi: 10.1109/RNDM.2017.8093024.
- Hage, E., Roo, J. P., Van Offenbeek, M. A. G. and Boonstra, A. (2013) 'Implementation factors and their effect on e-Health service adoption in rural communities: A systematic literature review', *BMC Health Services Research*, 13(1), p. 19. doi: 10.1186/1472-6963-13-19.
- Handayani, P. W., Hidayanto, A. N., Ayuningtyas, D. and Budi, I. (2016) 'Hospital information system institutionalization processes in Indonesian public, government-owned and privately owned hospitals', *International Journal of Medical Informatics*. Elsevier Ireland Ltd, 95, pp. 17–34. doi: 10.1016/j.ijmedinf.2016.08.005.
- Handayani, P. W., Hidayanto, A. N., Pinem, A. A., Hapsari, I. C., Sandhyaduhita, P. I. and Budi, I. (2016) 'Acceptance Model of a Hospital Information System', *International Journal of Medical Informatics*. Elsevier Ireland Ltd. doi: 10.1016/j.ijmedinf.2016.12.004.
- Hsiao, C.-H. and Tang, K.-Y. (2015) 'Examining a Model of Mobile Healthcare Technology Acceptance by the Elderly in Taiwan', *Journal of Global Information Technology Management*, 18(4), pp. 292–311. doi: 10.1080/1097198X.2015.1108099.
- Hsiao, J.-L. and Chen, R.-F. (2015) 'Critical factors influencing physicians' intention to use computerized clinical practice guidelines: an integrative model of activity theory and the technology acceptance model', *BMC Medical Informatics and Decision Making*, 16(1), p. 3. doi: 10.1186/s12911-016-0241-3.

- Hsiao, J.-L., Wu, W.-C. and Chen, R.-F. (2013) 'Factors of accepting pain management decision support systems by nurse anesthetists', *BMC Medical Informatics and Decision Making*, 13(1), p. 16. doi: 10.1186/1472-6947-13-16.
- Huang, Y.-H. and Gramopadhye, A. K. (2016) 'Recommendations for health information technology implementation in rural hospitals', *International Journal of Health Care Quality Assurance*, 29(4), pp. 454–474. doi: 10.1108/IJHCQA-09-2015-0115.
- Ifinedo, P. (2018) 'Empirical Study of Nova Scotia Nurses' Adoption of Healthcare Information Systems: Implications for Management and Policy-Making', *Kerman University of Medical Sciences*, 7(74), pp. 317–327. doi: 10.15171/ijhpm.2017.96.
- Jarosławski, S. and Saberwal, G. (2014) 'In eHealth in India today, the nature of work, the challenges and the finances: an interview-based study', *BMC Medical Informatics and Decision Making*, 14(1). Available at: <https://search.proquest.com/docview/1476211790/57FE6C10F5784339PQ/1?accountid=44396> (Accessed: 11 March 2018).
- Johansson, A. M., Lindberg, I. and Söderberg, S. (2014) 'The views of health-care personnel about video consultation prior to implementation in primary health care in rural areas', *Primary health care research & development*. doi: 10.1017/S1463423613000030.
- Khalaf, A. (2017) 'Wireless Body Sensor Network and ECG Android Application for eHealth'.
- Khalifa, M. and Alswailem, O. (2015) 'Hospital information systems (HIS) acceptance and satisfaction: A case study of a Tertiary Care Hospital', *Procedia Computer Science*. Elsevier Masson SAS, 63(Icth), pp. 198–204. doi: 10.1016/j.procs.2015.08.334.
- Kierkegaard, P. (2013) 'eHealth in Denmark: A Case Study', *J Med Syst*, 37(6), p. 9991. doi: 10.1007/s10916-013-9991-y.
- Lazuras, L. and Dokou, A. (2016) 'Mental health professionals' acceptance of online counseling', *Technology in Society*. Elsevier Ltd, 44, pp. 10–14. doi: 10.1016/j.techsoc.2015.11.002.
- Li, J., Talaei-Khoei, A., Seale, H., Ray, P. and Macintyre, C. R. (2013) 'Health Care Provider Adoption of eHealth: Systematic Literature Review.', *Interactive journal of medical research*. JMIR Publications Inc., 2(1), p. e7. doi: 10.2196/ijmr.2468.
- Liu, C.-F., Tsai, Y.-C. and Jang, F.-L. (2013) 'Patients' Acceptance towards a Web-Based Personal Health Record System: An Empirical Study in Taiwan',

International Journal of Environmental Research and Public Health. Multidisciplinary Digital Publishing Institute, 10(12), pp. 5191–5208. doi: 10.3390/ijerph10105191.

- Naghieh, A. and Parvizi, M. (2016) ‘Exercising soft closure on lay health knowledge? Harnessing the declining power of the medical profession to improve online health information’, *Social Theory and Health*. Palgrave Macmillan UK, 14(3), pp. 332–350. doi: 10.1057/sth.2016.1.
- Nguyen, L., Bellucci, E. and Nguyen, L. T. (2014) ‘Electronic health records implementation: An evaluation of information system impact and contingency factors’, *International Journal of Medical Informatics*. Elsevier Ireland Ltd, 83(11), pp. 779–796. doi: 10.1016/j.ijmedinf.2014.06.011.
- O’Neill, S. A., McClean, S. I., Donnelly, M. D., Nugent, C. D., Galway, L., Cleland, I., Zhang, S., Young, T., Scotney, B. W., Mason, S. C. and Craig, D. (2014) ‘Development of a technology adoption and usage prediction tool for assistive technology for people with dementia’, *Interacting with Computers*, 26(2), pp. 169–176. doi: 10.1093/iwc/iwt041.
- Olok, G. T., Yagos, W. O. and Ovuga, E. (2015) ‘Knowledge and attitudes of doctors towards e-health use in healthcare delivery in government and private hospitals in Northern Uganda: A cross-sectional study’, *BMC Medical Informatics and Decision Making*. doi: 10.1186/s12911-015-0209-8.
- Omoogun, M., Ramsurrun, V., Guness, S., Seeam, P., Bellekens, X. and Seeam, A. (2017) ‘Critical patient eHealth monitoring system using wearable sensors’, *2017 1st International Conference on Next Generation Computing Applications, NextComp 2017*, pp. 169–174. doi: 10.1109/NEXTCOMP.2017.8016194.
- Paul, M. C., Sarkar, S., Rahman, M. M., Reza, S. M. and Kaiser, M. S. (2016) ‘Low cost and portable patient monitoring system for e-Health services in Bangladesh’, in *2016 International Conference on Computer Communication and Informatics (ICCCI)*. IEEE, pp. 1–4. doi: 10.1109/ICCCI.2016.7479974.
- Ross, J., Stevenson, F., Lau, R. and Murray, E. (2016) ‘Factors that influence the implementation of e-health: A systematic review of systematic reviews (an update)’, *Implementation Science*. Implementation Science, 11(1), pp. 1–12. doi: 10.1186/s13012-016-0510-7.
- Saravanan, S. and Sudhakar, P. (2017) ‘Telemedicine communication system in Mobile units’, in *2017 International Conference on Computer Communication and Informatics (ICCCI)*. IEEE, pp. 1–4. doi: 10.1109/ICCCI.2017.8117750.

- Soemitro Sp.BS, D. D. (2016) 'Tantangan e-Kesehatan di Indonesia', *Pusat Data dan Informasi, Kementerian Kesehatan RI*, pp. 1–16.
- Sugiyono (2008) *Metode Penelitian Kuantitatif, Kualitatif dan R & D*, Bandung: Alfabeta. Bandung.
- Suryanto, T. L. M., Setyohadi, D. B. and Faroqi, A. (2016) 'Analysis of the effect of information system quality to intention to reuse of employee management information system (Simpeg) based on information systems success model', 58. doi: 10.1051/mateconf/20165803001.
- Suryanto, T. L. M., Setyohadi, D. B. and Wibowo, N. C. (2017) 'Empirical investigation on factors related to individual of impact performance information system', in *2017 4th International Conference on Electrical Engineering, Computer Science and Informatics (EECSI)*. Yogyakarta, pp. 1–6. doi: 10.1109/EECSI.2017.8239123.
- Tenenhaus, M., Vinzi, V. E., Chatelin, Y.-M. and Lauro, C. (2005) 'PLS path modeling', *Computational Statistics & Data Analysis*, 48, pp. 159–205. doi: 10.1016/j.csda.2004.03.005.
- Thuemmler, C. and Bai, C. (2017) 'E-Health in China', in *Health 4.0: How Virtualization and Big Data are Revolutionizing Healthcare*. Springer, Cham, pp. 155–185. doi: 10.1007/978-3-319-47617-9.
- Viswanath Venkatesh , Michael G . Morris , Gordon B . Davis, F. D. . D., Venkatesh, V., Morris, M. G., Davis, G. B. and Davis, F. D. (2003) 'User acceptance of information technology: Toward a unified view', *MIS Quarterly*, 27(3), pp. 425–478. doi: 10.2307/30036540.
- Wang, W., Van Lint, C. L., Brinkman, W.-P., Rövekamp, T. J. M., Van Dijk, S., Van Der Boog, P. J. M. and Neerincx, M. A. (2017) 'Renal transplant patient acceptance of a self-management support system'. doi: 10.1186/s12911-017-0456-y.
- Waters, T. M., Daniels, M. J., Bazzoli, G. J., Perencevich, E., Dunton, N., Staggs, V. S., Potter, C., Fareed, N., Liu, M. and Shorr, R. I. (2015) 'Effect of Medicare's Nonpayment for Hospital-Acquired Conditions', *JAMA Internal Medicine*. American Medical Association, 175(3), p. 347. doi: 10.1001/jamainternmed.2014.5486.
- Weiner, J. P., Yeh, S. and Blumenthal, D. (2013) 'The Impact Of Health Information Technology And e-Health On The Future Demand For Physician Services', *Health Affairs*, 32(11), pp. 1998–2004. doi: 10.1377/hlthaff.2013.0680.
- Wetzels, Odekerken-Schröder and van Oppen (2009) 'Using PLS Path Modeling for Assessing Hierarchical Construct Models: Guidelines and Empirical

Illustration', *MIS Quarterly*, 33(1), p. 177. doi: 10.2307/20650284.

Wicks, P., Stamford, J., Grootenhuis, M. A., Haverman, L. and Ahmed, S. (2014) 'Innovations in e-health', *Quality of Life Research*. doi: 10.1007/s11136-013-0458-x.

World Health Organization and International Telecommunication Union (2012) 'National eHealth Strategy Toolkit', *World Health Assembly Resolution and ITU World Telecom Development Conference Resolution*, pp. 1–2. doi: 978 92 4 154846 5.

